


1963



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1913

HAZEL NAYUKOK

Meade River

Alaska

Joe AHKPIK

6/26/63. [2 persons]

Taxi - Bronxville -

Idlerwild - \$11.00

tip $\frac{1.00}{12.00}$

Idlerwild

Overweight on
baggage —

Northwest A.L. \$42.72

baggage handling

\$2.00

Dinner:

June 26. Spent morning
catching up on dictation
& various odds & ends in
office. Pierre Dansereau
in with report on his
trip to Colorado to help
dedicate the new arctic-
alpine laboratory, at
invitation of John Harr.
His talk (the central one)
went well, & P.D. very happy.
To Light's Photo, on Webster
Ave., to pick up processed
Kodachromes from
Japan trip - almost
forgot them. Also stopped
at Post Office & got 2 sheets
of new U.S. Freedom from
Hunger Stamp, with wheat.
Went to Museum to say
good bye to Yuki & others.

Yuki not in - would otherwise
have asked him to translate
title of Japanese work on
bryophyta sent by Imou -
entirely in Japanese. Saw
Milford Martin & Clark
Rogerson, however. Stopped
to see Bob Kolkebeck & to
arrange for mail to be
screened. Notes to Yuki &
Montague. Went home
about 12:30 to pack -
called Midland Taxi
to pick us up at 4:00
pm., on Pierre's recommen-
dation, as being economical
& dependable. Taxi came
promptly at 4:00, but
went by Deegan expressway
& Triborough Bridge, just
in time to catch rush

Taxi - Bronxville - Idlewild \$12.00
Cocktails = 4.00 porter 2.00

hour Traffic, especially
in World's Fair area -
I would have taken
Hutchinson Parkway to
Throgs Neck Bridge &
Belt Parkway to Idlewild, &
probably caught in same
kind of traffic. To North-
western Terminal at 5:15
a 100 pounds overweight,
so shipped this part of
year as passenger -
accompanied air freight
to Anchorage - will have
to negotiate the whole
problem there to
Fairbanks & Thence to
Barrow. I must hope
that everything I need
got packed, with so
little time to put my

drinks on plane 3.00
porter in Anchorage 2.00

mind to it. Fortunately,
Dorothy had almost
everything I needed
piled up & I had much
photographic stuff stockpiled,
too. Taxi came promptly
at 4:00 - lots of traffic,
so not at airport until
almost 5:30. Had intended
to eat dinner at airport
but on checking in
discovered that dinner
was served on flight,
so went to cocktail
lounge for a drink.
On board at 6:45 - were
lucky to get front seats
in tourist section with
plenty of legroom quite by
accident, as stewardess
made a mistake.

"breakfast" in Anchorage \$4.50

(7:00)

Off on time and arrived
in Anchorage at 8:30 -
6 hours time difference.

We slept on plane during
the long trip and arrived
in Anchorage hungry

(already early am. in New
York), so ate a sort of
breakfast. Off on Alaska

Airlines jet for Fairbanks
at 10:30 - jet really bound
for Seattle - and in FSKS at

11:30. Taxi To Travellers
Inn - fortunately they were
expecting us & had held
room, as I had sent

check for \$20. - when making
reservation & had cleared
late arrival. Beautiful
sunset-sunrise in north
at midnight.

breakfast #6:00

June 27. Up at 8:00 - still
sleepy & not used to 6-hour
time difference. A dark
morning with a bit of rain
in the air from time to
time. After breakfast walked
around Fairbanks to get
our last minute shopping
done - stamps, rubber boots,
pants, Anahist spray, air-
mail envelopes, some black-
& white film just in case,
gloves for Dorothy, etc. etc -
including plastic bags,
never a more thing at AKC.
Stopped at Lindy's & ordered
liquor and picked out a
cartload of goodies. Also
stopped at Wien's to confirm
tomorrow's flight to Barrow -
and as usual, they had

never heard of us. Fortunately,
space was available, so no
problem arose. After lunch,
while Dorothy took nap,
I went to town & got
haircut (\$3.10!) and
paid bill at Lindy's (\$288.+).
Walked around town for
exercise - lilacs and
narcissus in full bloom.
Dinner at Travellers Inn
and then saw movie put
on by Chamber of Commerce
on Alaskan tours. Then
an interesting series of
dances by 2 Eskimo couples,
quite elderly but very agile.
The old traditional Eskimo
dances but brought up to
date by improvisation in
typical Eskimo style.

June 28. Up at 6:00, to
find a dark rainy morning.

Breakfast at 7:00, then
repacked & got ready for
an 8:00 pickup by airport
limousine. Took first lot
of gear to lobby & was
told that flight was
delayed by weather conditions
at Barrow. Called Wiens at
9:15 & 10:15 & finally learned
that departure was scheduled
for 11:30, so we went to
airport. Finally off at
11:45, ^{in Fairchild} with heavy cloud
cover. Got faint glimpse
of Yukon and of tundra
N. of Brooks Range, but no
visibility for photography.
Stopped at Umiaq -
apparently a regular stop

now - about 1:30. Bob Main
flying for Wren now & flying
charter flights out of Luniat -
he flew for ARL in 1960 -
happened to be on hand & saw
us, so we had a good
reunion with him & his son
Dale - They had fixed up
living quarters in the "tower."
Off again and arrived at
Barron at 2:40 - cold & low
ceiling. Came in along beach
as all planes do with poor
visibility. Met by Ted Humphries,
who is now the expeditor.
ARL now has jeep station wagons,
much easier to get in & out
of, especially when heavily
laden, than standard jeep -
went directly to ARL & saw
John (+ Erma) Schindler & Max

Brewer. Checked in, were assigned to lab[#] 10, then went to store & got issue clothing - parkas, etc. Talked some more with Max & John & heard details of their last year's forced landing on ice when plane was accidentally refueled with Diesel oil at Arlis II! Then were given tour of brand new animal quarters & shop. Saw 4 year-old wolves & 5 brand new ones, plus 2 wolverines. Stopped in to see Frank Pitelka and his group - Frank leaving next week. Drinks & dinner with Brewers - at Brewers - & Schindlers & Pitelka. Managed to get caught up on much news & gossip, after missing 1962 season

June 29. To lab after
breakfast at home. Unpacked
books and maps & got
lab (#10) squared away.
Got paper bags from
storeroom upstairs, then
got presses, blotters,
ventilators, newspapers
& plastic bags - now all
set for field work. In afternoon
went out on tundra behind
base, toward the gas well,
for a couple of hours. The
snow melt off was unusually
early this year & so the
tundra seems dryer than
usual. Talked to Max Brewer
about getting into the field -
we may go to Meade River
on Monday. Must do a lot of
sorting of gear at home, too.

June 30 (Sunday). Slept until 8:00, then a leisurely Sunday breakfast. Went to lab, which was practically deserted.

Got cameras and camera equipment sorted and organized - also maps & selected maps needed for Coal Mine and Noluck Lake. Stayed home after lunch - took a long nap to remedy sleep deficit and then read ΦBK books submitted for prize. Read or finished reading & wrote reports on books by Suggs, Simnett and Roeder. Strong N. wind all day but rain in evening must mean shift

July 1. Up early, typed
off reports on books for
PBK & got them in mail.

Packed packsack - got
a clipboard, for maps &
paper, that needs to have
about 4 inches sawed off.
Went home and got
gear in order & packed
a duffel bag. It's a
new and pleasant prospect
to be living in Waingona
instead of a tent & means
carrying much less stuff.

Learned, finally, that
we would probably leave
before 2:30, so settled down
to a relaxed lunch &
finished packing. About
1:30, when I was still reading
the truck came for our gear.

Q & I went down to lab
to get pack sack, presses
etc. on to the truck for
packing on plane. Truck
(Ied Humphrey) picked me
up at lab, then home
for borrowing a last minute
items. Off at 2:04 in
Cessna 180 on wheels,
with Mal Staehli as pilot.
He got lost, so we saw
lots of tundra - and
caribou - before 3:00,
when we finally arrived.
Air strip only a weasel
trail bulldozed out of
tundra - but sandy.
Wanigan a Tar-paper
shack on skids, with lots
of loose pieces flapping
and vibrating in strong

At a ^{small} meadow, Alaska

west wind - Key to Wainaga
in possession of young
self elected caretaker
(E Eskimo apparently
with TBC). Made coffee
for Mel and E Eskimo,
then to get settled.
Knock on door & Hazel
Nayukok arrived, on
a social visit! She has
2 boys & 2 girls, one boy
adopted. Her husband
working at Umiat, for
an oil company, but
should be home for the
4th. - If Wain is flying.
In getting water from stream,
I looked at plants - a
reasonably rich flora -
Parnassia, Erythronium, etc.
Our Wainaga camp - table -

July 2. Up early & after
breakfast went north
through tundra to next
great sweep of meade fire
to north, well marked
by snow bank - when
one reached a certain
altitude. Tundra low -
center polygons near
village of few types, of
relatively high pH, with
Cinclidium, *Scorpidium*,
Mosses spp., etc., but
progressively more acid
southward, but with
lots of *Lepidocolea* (or
whatever Schuster calls
it today). Birds all
fledged - in middle of
nesting season - &
flushed 3 *ptarmigan*

house with fluffy yellow
+ brown peeping chicks.
Back to wamigan for
late lunch, then

Working and I walked
approximately 1 mile
to lake that feeds
stream going through
village - across
lakes - up to. Then
we walked to wamigan, &
back down bank of
Meads River to our
wamigan. Afternoon
became progressively
clearer, so I took
pictures of plants. &
continued to do so on
arrival at camp, at
4:00. No more than
standard, than Hazel

Nayukok came up
hill, with daughter
Clara, on another call,
but with fresh-caught
whitefish from river as
gift. Dorothy gave her
some evaporated milk
(that she needed badly
for her baby), and some
fruit & sugar that we
were long on. Fish
for dinner & excellent,
especially since we have
sent out with almost
no supply - no bread,
potatoes or vegetables,
either fresh or canned.
We can make out for
a week or even 10 days -
if necessary, but on
marginal level.

July 3. Strong wind of
last days - suddenly
still. Fog in night &
sprinkle in morning,
but not real rain.
Out about 8:30, with
sun trying to burn
through overcast. Went
back up river to
photograph *Eutrichia*
on dunes & took several
shots, with varying
light. Collected several
insects not yet found,
including *Splachnum oratum*
and a *Crematodon*.
Each day will bring
fewer records in a
well-known place like
this, where Howard Cunn
worked in 1953, and

Holmen & Mårtensson
in 1960 or 1961. Found
Fissidens in quantity -
had been looking for
it. Habitats not right
for many things - have
not seen *Leptopus*, for
example. Still have not
collected *Ceratodon*, in
great abundance and
Ptilopodium, common
here than at Barrow.
Joe Althoff, the "caretaker,"
came to call - and
stayed. Rained in
evening. To bed early -
have slept poorly lately.
Woke up nearly at midnight
by phone that car had & finally
landed. Not HRL & not marked -
perhaps Löwen, as everyone came
a week back to village.

July 4. Rained all night
& all day - dark & cold,
but little wind, at least
compared to first few days
here. Stayed home &
sorted & recorded specimens
collected during last 2
days, and Dorothy put
them in newspapers.
Some 100 collections and
nearly as many species -
really more if admixtures
are counted. Although we
have no coal, found
that range will heat
up remarkably well for
long enough to warm the
kitchen with newspapers,
cardboard, etc. At 4:00
heavy snow began &
everything white by 7:00.

Joe Akpik came in about 5:00 and spent a couple of hours sitting with us - but without much communication. However, we did learn that his name means "Salmon berry" - Rubus Chamaemorus.

Also found that coal mine operated primarily in winter, in a vein 8-10 feet thick. Coal blasted loose, then taken to hoist bucket by wheelbarrow. Coal taken to Barrow & bartered for food - supplies. Wainwright, although at equal distance, has its own coal mine. Snow finally changed to sleet - 4 or 5 inches during night.

July 5. A cold, dark, windy morning. Much of snow had evaporated, but still several inches thick in depressions & whole landscape still white. Because low-center polygons were still snow-filled, I walked along face of bluff over Meade R. & in ravines in it, to the coal mine. Got many things not previously seen & that might otherwise have been overlooked. Back to Wainigan at 2:00 & Dorothy had no more than gotten a piece of pork chops on the stove than we heard a plane - Max Staehli & the ARL 180 - which was met by us and

most of the Eskimos in the village, who then came in to watch us pack.

Voorty distributed the perishable food among the 2 families & also gave them the pork chops on the promise that the pan would be returned.

Off about 2:30 & no sooner in air than I remembered leaving the rifle, intended for Nuluck Lake, well hidden in the waningan. So, back to the country road airstrip & got gun. Mal flies as low as Zimmerman & has as gay a temperament.

Suggested that we go out to Coast & see the monument, which we did, thence back

along the beach, buzzing
every tent & ~~is~~ skimming along
the way. Met by Ted
Humphrey, who took us
home. After lunch went
to lab to check in with
Max & John - they came
in for drinks & John
brought Tina, who is
leaving for several weeks
in Mexico, tomorrow. First
lot of mail in from Bronxville
& Garden - also the batch
of 4BK books I had mailed.
Got drier installed in lab
and press that Dorothy
had made up over the
heat. Will have to postpone
sorting today's collections
until tomorrow.

July 6. Up early & spent
most of day sorting,
numbering & inventorying
yesterday's collections
& getting them over the
boat. At 12:00 went out to
the airport to see Erna
Schindler off for Mexico. Met
Phil Church, Univ. Wash.,
who had arrived on the 4th.
Also met several of the lab
inmates, John Tedrow and
a CRELL group, Johnson, a
plant ecologist, Grant Walton
and Bob Heddlynn. Also a
heavily bearded young
Dutch limnologist from U.
Indiana, with some mosses
for identification. Managed
to identify mosses left
last week by Kurt Bohnsack.

Max & John in for drinks,
John stayed for dinner,
then we all went to Barrow
village to watch baseball
game, boat races and
tug-of-war, all postponed
from July 4 because of
terrible weather that day.

Home about midnight,
then invited in for a
nightcap by our neighbors
on the other end of the
Quonset, Dave and Brian
Mullen - he working on
his doctorate with Frank
Pitelka, on the physiology
of hummingbirds. Earlier, Max
had told us that hibernians
were almost immune to
strychnine, so Folk was
worried about relaxing his for
experimental work!

July 7 (Sunday). Slept
until 9:30, thanks to
black out shutter on bedroom
window. Went to lab,
changed driers in one
enormous press,
finished identifications of
mosses brought in by
others. Had long talk
with ^{Phil} Johnson, who took
Ph. D. with Dwight Billings,
& who knows Pierre Danseman
well - an interesting &
bright boy not ashamed
to be a naturalist in this
modern age. Spent pm.
on correspondence - letters
to Kolkebeck, Danseman,
Erwin, Rickett & carbons +
note to Grace Vietz. Mullens
over for drinks after dinner.

July 8: With drier
on all night, most
of the specimens were
dry. Put the rest on
the heater and they were
dry before lunch. Talked
to Max + John - float
plane due in any
moment + we should
depart by 12:00, so
went home + finished
packing. Then heard that
plane was having manifold
repairs + would be delayed,
so back to the lab to wait.
Max plans to leave us at
Noluck Lake just a week,
then back to Barrow a
couple of days to dry
specimens before going
to Banks Island. He is

sending a reconnaissance
flight out tomorrow to
test landing strip & to
see if Maher wants to
be moved. If R4D can't
land, then we will have
to go by 180, a much longer
time en route. Today's
trip will take 2 flights,
so Max is sending an outboard
motor for the rowboat already
there.

Off, finally, at 1:20 and
at Noluck Lake at 3:00, after
a fine flight in good weather.
Noluck Lake the counterpart
of Liberator Lake and Smith
Lakes - at the very front
of the Brooks Range, with
mountains immediately
behind, only closer than

other areas visited. The
new housing very comfortable
with new furniture & propane
stove for cooking, plus
a space heater - but I
didn't know how to operate
them. However, a good new
Coleman stove was on
hand, so we used that.
Spent late afternoon and
evening making collections
of relatively common
mosses along lake shore.
Much bear dung & cabin
equipped with nail
slatted covers over doors
& windows. Second flight
with remainder of year
never arrived, so spent
the night with one car
open. A fine place!

July 9. Dorothy's birthday
but nothing in hand after
blowout in Tokyo - also, tore
at Base out of everything
for gifts. Up early, even
after bad night of listening
for plane for both of us &
out to mountain behind
Wamigan - Good collecting,
with *Kudaka prolifera*, *Scapanus*
Simmonsii, *Trillaria*,
Tamnomia, *Macrodiplphyllum*,
Cynodontium alpestre, *Mnium*
Andrewsianum, *Mesopterygia*,
peculiar "Pezomachium" of
sist. boiler, etc. Home for
lunch because of probable
arrival of float plane.
Stayed home all afternoon
until at 4:30, we heard
plane arriving. Bobby

Fisher arrived in float
plane with Dick
scheduled for another camp.

He brought my press, plus
more food, plus outboard
motor, oil, etc. and I
rearranged several spray
cans of "Off" because of
enormous clouds of
mosquitoes. We gave
him some chocolate that
we had been drinking when
we heard plane & he showed
us how to use propane
stove - also how to tell
full propane tank from
empty one and how to change
them. Bobby also brought
mail from Baron - mostly
birth day cards for
Dorothy!

June 10. Planned a long trip because not yet well started - spent so much of yesterday waiting for plane. Went up stream to "twin" mountains, visited eastern one to see old mine (?) & then to high ridge back of them, to be seen from camp. Tracks of thousands of caribou everywhere, especially south of twin ridges. Found much of interest, including *Trichostema cuspidatissimum*, *Hedysarum giganteum*, *Heesia tigraria*, *Mimulus Andrusianus*, *Lepidoloma*, an odd hepatic, *Plectroloea*?, that seemed to exist mostly as bare stems with only

rudimentary leaves, but
suddenly producing an
apical tuft + pinnate.
Much else of interest. Also
photographed many higher
plants. From ridge, went
east to swampy ridge
connecting to back of
eastern high ridge close
to camp. Up south side
& over top just at E. end
of Woluck Lake. Down on
an angle for $\frac{1}{2}$ mile, then
across wet tundra to camp.
Mosquitoes too ferocious &
I too thirsty after 6 hours
of work to do much collecting
on way down - will save two
for shorter days, directly
out of camp. Did see much
Rudula, however, & collected Lepidotes

June 11. Rained all night -
ranging from real rain to
sprinkle to mist. Only
a sprinkle when we got
up, but still dark and
uniformly overcast. This
will be a good morning, at
least, to sort the specimens
already collected. Got through
material collected July 8 &
9 & out in rain to western
"twin peak" behind camp.
Up the western end, in a
ravine with stream, then up
back wall to rock pile on
top. Crest relatively smooth,
with a sharp drop off on
north and a rounded south
slope with very conspicuous
solifluction stripes. Walked
whole length of crest & found

that someone had installed
a vertical pipe in rocks at
highest part of E. end of ridge. ^{but not a benchmark}
Then down & back to camp
via E. end, north slope. Out
2 1/2 hours & rather wet, in
spite of rain-shedding quality
of amarak. Picked up several
things not yet collected &
got a lot of *Fullania*, in
the hope of finding more
F. jacksoni, collected more or
less by accident at Deepwood
in 1951. Stormy evening so
dark that I located drum of white
gas on beach, filled empty
Jerry can in Wainigan, assembled
& filled new Coleman lantern &
got it going. With propane stove,
not much need for white gas
unless we get outboard going.

July 12. Another cold
rainy night and dense
foggy morning. After breakfast,
settled down & sorted &
recorded collections made
July 10 & 11 & Dorothy put them
in papers. We finally finished
the tedious job at 4:30 p.m.
& went out to visit old
cabin & climbed western ridge
from back - a veritable
rock garden & the first
impressions. I had seen in this
area. Ascent from back much
easier & less steep than
from north. By the time we
got to the top, the ceiling
came down below snow line
top, so we had only fragmentary
views of camp, lake, surrounding
country, etc. In good weather,

one has excellent view of
Hsiening Mountains from
this ridge. Wind strong &
cold on top - must be snow
at higher altitudes. Back
to camp after 6:00, cold
& damp, but with blood
circulating again after long
day's work on specimens!
Picked up a few things not
yet in hand as primary
collections, but only as ad-
vances, as 2 spp. of
Aluconitium & some
weedy things. Tomorrow,
weather or not, will go out
on lower ridges west of high
mountain behind camp,
in hope of finding some of
the driftwood species. Cold
night!

July 13. Morning cold, dark
windy & foggy, with occasional
blades of misty rain. However,
overcast is finally in discrete
clouds & not continuous,
with sun visible in thinner
spots. Out at 9:00, & went
west from "west ridge" behind
camp on ridges parallel to
it - and some at right
angles. Found several good
areas of stabilized frost
drifts, both wet & dry, with
Viburnum surfaces, *Tremula*,
Am. baccata, *Plagiobryum*
Zierii, etc. Continued west to
Storm Creek & got *Buxo-*
billonia and *Dichodontium*
in river flats - but did not
find *Alisma*, usually common
in such places. Day gradually

got brighter as clouds thinned
& scattered, but still cold &
windy. Found excellent
walking on caribou trail
just south of ridge & saw
one young caribou, who
started running when he
saw me, even though upwind -
and a very strong & cold wind,
too. Half expected to hear
plane coming in today because
of a remark Max made about
a "social call," but with ice
breaker in at Barrow & with
planes undoubtedly behind
schedule because of bad
weather, Max is well tied up.
Will go out on "east ridge"
tomorrow & to Pelly Fork of
Nenana River (U.S.G.S map, 1956 Ed.
Wishauk Mountain Quadrangle).

July 14 (Sunday). Cold night, and another foggy, rainy, cold and windy morning. Finally out at 10:00, working on the north slope of the "east ridge" behind camp. Worked up near the summit, then down to about half way, to intersect ridge running east nearly to the Pilly Fork of the Nuka River, then ^{low} some tundra before reaching river. River narrow but fast, what with all the recent rain. Got a *Hygroplitis* sp. on rocks in the river. Found first *Dodecatheon* seen in area on banks. Walked down river a half mile or so, then west to isolated ridge near.

SE corner of Moulack Lake.
A great relief to turn west,
as I had been working into
strong wind & rains until then.
Got another *Cinchidium*,
probably *C. subrotundum*,
Scorpioidium, *Splachnum*
vasculosum, good *S. vortium*,
and several other items of
interest. Home about 3:00 &
started sorting collections made
Feb. 12, 13, and Today. About
8:00 we heard a plane,
although weather seemed far
too bad. It was Bob Humphrey &
3 passengers, including Mr.
Hemquist, touring Lakes for
large hauls. Gave them coffee
& tea & they off at 9:30. Finished
sorting specimens at 10:45. Mail
& fresh meat!

July 15. Got up about 3:00
am. to shut off stove - wind
had died down & morning
much too warm - looked out
& there was large wolf
roaming around among
clumps, etc. Called Dorothy &
she saw it, too - it seemed
quite unperturbed by us.
Although ceiling was still
very low, we could see sun
light in north between two
mountains north of lake,
between which the outlet of
Black Lake runs. Brought
in fresh meat that we had put
under house! Bob then from
pile of last night's game
told us that Baron's & Corcoran's
plain had been having good
weather during our stormy spell.

Up at 9:00 am. - still foggy,
cold, misting & the strong
west wind back again. The
ceiling so low that no plane
could come in - right on the
ground part of day so that we
couldn't even see across the
lake. Out before 10:30; went
up small stream that passes
through camp as far as
mountains. It separates
and came back through
wet tundra, specializing
for *Cinclidium* and *Calligonum*.
Was glad to find *Murina*,
Cinclidioidea & several other
things not previously collected.
In at 1:30 - wet & cold.
sorted collections. Half expected to
be picked up, but fog settled in
right to the ground.

July 16. Up early - still some fog but sun trying to break through. Out at 8:30 to "west ridge" of Twin mountains just south of camp & worked on north face slowly and carefully, since main inventory job is completed. Found Oreas with fruit, a Tayloria and a Thuidium, all of interest. Sun finally came out, but fog replaced by heavy cumulus and occasional showers. In for lunch just after 2:00 & to avoid heavy rain from approaching cloud. After lunch took a few photographs between rains & began to pack. Heard phone about 6:00 - Bob (Munroe) had been taking

a party (McNamara) to a lake
above Lemiat, to descend by
boat, and stopped in to see
if we were ready to go
because his plane was
empty and he was in the
vicinity - a most humane
attitude, as otherwise it would
be at least another day before
we could be picked up. Finished
packing, took gear to plane,
turned off propane tank, put
horrible bear-and-wolverine
proof shutters back on windows
& door (& managed to snag my
hand in process) and off just
after 7:00. Landed at Barrow in fog
shortly after 9:00 - met by Joe & Ted
Humphrey. Home for a quick
supper, then put 2 big presses
of wet specimens over the fire

July 17. Up early & got last batch of wet specimens in press & over the heater - all material better than usual because collected in rain. Also sorted yesterday's collections & got them in press, too, so all material now under control. Dorothy spent morning on accounts & bills and I also paid a couple of bills & got Random House check off to bank. Max Brewer & John Schindler stopped by for a drink and ended up by staying for dinner - then their two guests, the administration of the school at Barrow village, with whom they were going to play pinochle, stopped in for the evening, too. Wait to lab late to him

July 18. Spent whole day
getting specimens dry,
& still had to leave 2
presses on heater overnight.
Collecting in rain made
this the wettest lot of
material in a long time.
Had long letter from Pierre
Dumrean on several
topics & answered it. Went
to store at noon & bought
a couple of packages of air-
mail envelopes - or stick
disappeared from the lab
while we were at Noluck Lake.
The strong east wind we
had at Noluck blew the ice
out to sea - very early in
the season. Had long talk
with Dave Mullen about Banks I.
He is passionate about mosses.

July 19. Most of specimens
left on heater overnight were
dry - the rest I dried by
exposing to air or by laying
them on the heater. Letter
from Grace Gietz - answered.
Also typed up reports on
6 books read for the F.B.K.
science award. 1 letter to
secretary suggesting that
this is the end. I only hope
that a book or so isn't floating
around in a bush plane or
field camp. Talked to Hank
Childs, who also went to Banks
I., & who brought back some
news, so it isn't as much
of a desert as Mullen thought.
Max Brewer in - we will go to
Cape Thompson tomorrow, then
to Banks I. via Inuvik, Canada.

July 20. Last dozen sheets
of specimens finally dry.
wrapped all dry material
from Meade River & Noluck
Lake in 4 big bundles - all
set to pack and ship when
the time comes. Letters to
Schuster & Tilley concerning
public. Very heavy fog,
right on ground, so thick
that eclipse of sun would
not be seen most of time,
and when it did appear, no
filter was needed. Saw Max
Brewer about today's flight,
if any & he predicted about
3:00, so home to finish
packing & for lunch. After
lunch had long conference
with Brewer & Schindler - ARL
has possibility of getting

intermediate DFW line
stations from Air Force,
as reception of major
stations has been greatly
increased. This would mean
the acquisition of 7-9 U.S.
facilities and 3-4 Canadian
ones. My reaction was to
accept anything available
and worry about what to
do with it later. To airport
shortly after 3:00 and finally
off at 3:55 - delayed because
Brian's Fairchild and C-46
were in process of landing
after long delay above fog.
Fog extended only a few miles
south of Barrow; rest of trip
in clear, so I took several
tundra photographs, mostly
feeder streams and drainage

features in general. Murphy
cut in just west of Beaufort,
but east of Cape Sabine,
& thence southwest, so
we missed the cliffs of
Cape Lisburne and their
terrible down drafts, experi-
enced two years ago with
Prescott & Hultén. Arrived
Cape Thompson at 6:30 -
to find that it was 5:30
camp time - also Kotzebue
& Nome. Met by Harvey L. Strong,
the camp manager & several
others. An English couple, ^{Southwode} he
working on invertebrates, went
back with Murphy. Dr. ^{John} Parker
from Univ. of Alberta, here
working on crypto taxonomy.
Doudney and I went out for
3 hours to collect & followed by

(Sunday)

July 21. Rain in night & dark morning. We got up early & made our own breakfast before others got up. I was in field about 8:30 & came in for lunch about 1:00 - to find that lunch was at 2:00. Dordmy and I had a sandwich & Harry took us by truck out to the new airstrip, reasonably close to mountains SE of camp. A persistent rain developed, so we came in a bit early - at 5:15 - somewhat damp. The side valley we entered had a resident bear so we were supposed to carry a rifle, but when I balked, Harry Strong gave me a

smoke bomb, which would probably be more effective. The mountains south of the Ogotomuk creek of black shale, very acid and sterile, but I had to see them to be sure. Will now put main emphasis on limestone mountains on north. The local situation here is bad, with only one or two in operation, so most of my work will have to be on foot. Big turkey dinner - we ate too much. Spent evening sorting yesterday's collections & recording them - Dorothy got them into papers. We have late space with Dr. Parker who is counting chromosomes of local plants.

July 22. Out in morning
with Dorothy to big ridge NW
of camp, up ridge nearly
to top then along ridge for
a couple of miles & back
via deep gorge & creek that
joins Ogotoruk Creek. Sun
not really out, although a
much better day than yester-
day, so took a couple of
photographs, esp. of *Dodecatheon*
and a magenta colored
Castilleja. Back for lunch,
then out to same area we
visited Saturday night, to
photograph plants, with
improved weather. Finally
found our friendly fox who
was sleeping in willows & who
yawned & scratched at a
distance of 20 feet, until

finally leaving us and
climbing mountain. Got
a series with telephoto - at
least if exposure is ok.

ARK plane came in while
we were on mountainside,
with John Schindler, as we
found out later on return.

Spent quite a lot of time
photographing plants and
in looking for - and
finding - the curious turgid
moss (*Myuroclada*?) found
as a few strands Saturday
night. Found a reasonably
pure colony & collected
enough for *exsiccati*. Max
Brewer arrived in evening -
he and John assigned to
beds in our community room,
but didn't come in until 4:00 am.

July 23. Everyone up early because barge had arrived to pick up cargo for Barrow and to deliver gasoline for this camp. On Braveris urging, Dorothy and I were finally able to borrow a vessel - although there are 6 or 7 around, only a couple of them work well. Went up Ogotomuk Creek about 5 miles, then left up a creek coming in from the north & over the tundra on an old beaver trail almost to the Kupuk River - to which I had hoped to get but thought it was too far because of our late start, but saw from the plane the next day that we were only a mile or two away and that the cut banks we could on

the range to our left (west) were really on the other side of the river. However we got back to camp in time to see John & Max before they left & to learn that the prospects for ARL acquiring the intermediate DTL line stations looked very good the Air Force is willing if the Navy agrees - and Max apparently has Navy agreement in hand. Not many collections today. Got *Blasia* on banks of a small stream & fruiting *Psilopilum* - common but sterile on the coast, insofar as I saw it. Very quiet at dinner with Max, John & the barge crew gone, so Harry Strong served a couple of vodkas to survivors.

July 24. Rained hard in
night, so up & out early. Had
to get breakfast for us, as
whole camp was sleeping
after strenuous 2 days of
getting ready for & loading the
barge. Found Herberta, Aloina
& several other things not yet
collected - but no Ascidiata,
which turned up last time.
Worked carefully in shale &
silt first boils seaward from
NW end of ^{old} runway, behind
camp, through lunch hour. Fog
right on ground much of time
& so none of us expected a
plane today, after all. However,
heard plane & rushed back
to camp, arriving about 3:30
just after plane had landed
& was unloading food & a

new colored work, long overdue
Quickly finished packing,
gave pass from lab, said
goodbye to Packer, Harry
Strong & others and off at
4:00 - 5:00 Barrow time.
Weather clearer north of
Cape Thompson & good all
the way to Barrow except
for occasional scattered
clouds - saw magnificent
northern rainbow. Arrived
Barrow in full sun at 7:20
& home not much after 7:30.
Went on to lab after delivering
kudzu & gear at home; changed
pass from wet rollers to dry
congealed & got it over leader.
Some mail for us in office - saw
Max briefly, then home for
food - too tired to sort specimens.

July 28. Another bright &
sunny day after a long siege
of fog. Some specimens
already dry, others enough
so to lay out in dry air &
back to finish up. Sorted bags
of stuff collected during last
2 days, made records &
got into press. Spent whole
day on specimens, in one
form or another. Got
considerable information on
Inuvik from Hank Childs -
apparently quite a place &
brand new, to replace Atkasut,
which is being taken over by
the Mackenzie. Max & John
in for drinks, followed ~~at~~ at
once by Cliff & Norma
Hedderfor - no time for
dinner!

July 26. Great bulk of
specimens now dry - will
leave a few on the dryer if
necessary, for a day or so.
Phil Johnson will pull the
things. Letters from Pierre
Dumareau & Grace Dietz -
stationary came yesterday
but no messages. Wrote
Alaska Airlines for recon-
firmation of our flight Aug. 8.
I sent carbon to Northwest
Airlines - also asked Northwest
to make hotel reservation in
Anchorage. Ted Humphrey
came to lab at 12:00 to say
that our flight was developing.
So home for lunch & to pack.
Wrote note to Max Brewer
about need to return to Barrow
from Banks Island in time

to dry specimens & pack gear
before departing on the 8th.
Picked up at 2:00 and off
at 2:25 in 180 on wheels, in
rain. Weather on and off -
very bad in Barter Island
area, with fog, rain & low
ceiling, but began to clear
just after Herschel Island.
Arrived at Inuvik at 7:00 -
4½ hours flying time
instead of 5 hours because of
strong tail wind - but 9:00 pm.
at Inuvik. Many photos of
Mackenzie delta & vegetation
cycles. Inuvik brand new &
very colorful. We were lucky in
getting room in Mackenzie Hotel,
the only one. Walked around
town after dinner for exercise -
an interesting place, on dry land.

July 27. A dark rainy morning with low ceiling - we slept badly because of hammering bed & noisy town, especially because we are over the bar! Up fairly early, to meet Bob Murphy for breakfast at 8:00. He had still not been able to find customs man to sign the papers, so we walked to the laundry, run by the customs man, but it wasn't yet open. Tried a second time, but laundry still closed. Finally got a taxi for the airport, & found that the driver knew where the customs man lived, so we stopped at his house & Bob finally got squared away.

Out to the air port finally about 10:00, but in a very heavy rain. We waited until the squall passed, then Bob gassed up & we were off at about 11:00 & arrived at Aklavik at 11:30. Met by friendly young village manager who gave Dorothy & Bob much information about Aklavik & the transfer of many government activities to the new town of Inuvik. I promised to be back at plane in 2 hours and headed for the nearest spruce forest, down the river. Not a terribly rich flora, but some things of interest, especially *Bryobrittonia* & several *Poblicia* & many *Bryum*s. On the way, back

I was met by Dr. Krajina
of the Univ. B.C., with his
15-year old son & two students
from UBC - They are doing
ecological work in the
adjacent Richardson Mts -
where I would like much
to work. Since he will be at
the AIB meetings, I didn't
spend too much time with him,
so we got off before 2:00 &
were back at the Innuit
air port about 3:00 & back in
town about 3:00, in time to
catch the Liquor Store open at
its highly restrictive hours.
Then to the Hudson's Bay
Store to look at carved
soapstone, much already
bought by ARK people
going through. We bought

2 large pieces - a bit
expensive (\$60. + \$70.) +
I got 3 pieces for Soliman
at ARL, after talking the
manager into accepting
his check. We will get some
more things on Monday,
for the kids. The H.B. Store
has an unusually large
stock of soapstone & the
prices are not too high.
Bob decided not to go back
to Barron because of
strong headwinds up to
40 mph. - a long hard trip
by himself, anyhow. We
sat around all evening
with drinks, talking about
the Banks Island trip &
other things - Bob all set
to take us in the 180!

July 28 (Sunday). Slept in - another dark morning, so we continued lunch & breakfast about 11:30. Bob Murphy up at noon & decided to go to Barrow, weather or no. So he left about 2:00, with our soapstones to leave in our hut, as well as the stuff for Solimene. Bob & I first walked down to the water front, then south of town on the airport road & I did some collecting in a rather dull spruce forest. Then back through town & out a bit on a road going north. Then home to the hotel, took bath & relaxed - not a very productive day.

July 29. Rain all night &
still raining in morning, so
slept a bit later than usual.
Clouds finally became distig.
inquisible & rain occasional,
so out about 10:30 on road
to air port & over 2 ridges
to east, to make transects
of muskeg, swamps, lake
shore, birch & spruce forest
and willow & alder scrub.
Got very wet from fighting
wet brush - willows not
only terrible for being willows
but all half dead wood. must
have been a very dry season.
Rain resumed & became sleet
so started home & back at 4:00,
so wet & cold that I took a hot
bath to thaw. No sign of
R4D from Barrow. Dorothy got
our shopping done.

July 30. A dark morning
but no rain - just mist. Out
on road north of town & looked
at large one that had been
bulldozed, presumably for an
eventual gravel pit, as done
south of Inuvik. Finally got
Alvina, inevitable with this silt.
Then down to river, or at least
the channel used by boats
coming to Inuvik, near large
oil tank farm. Willows wet but
not as bad as yesterday & very
glad I went in, in spite of much
reluctance, because a brand new
moss to me - *Myrinia*? - was
growing in abundance on silt &
over bases of willows, where
inundated in flood times. Good
enough, with sporophytes, for
exsiccatis. Back to hotel about

4:00 & put new moss in papers
at once, to avoid having nothing
but adobe bricks in plastic
bags. Had almost given up
hope of arrival of plane when
about 9:30 the hotel manager
came up to tell us that the
group had arrived, but that
for lack of hotel space, they
were being quartered in the
Roman Catholic hostel for
students. With strong north wind,
the plane evidently had
swung around to S. end of
runway & did not go over
Inuvik. Murphy & Alderfer
with Dick Holmes & Sapp Fieldt
back about 10:00, so we went
to pub & drank beer until
about 12:30 - closing time.

July 31. Overslept + late for
breakfast. Quickly packed stuff
+ off to air port about 10:00, but
still had to gas. Off at 11:10 in
K4D, with Fred Carpenter, the
'chief' of Banks Island, his
wife and 3 (of 13) children,
plus a lot of his freight. Soon
over the heavy overcast +
cruising over Sachs Harbour
now way about 1:30. Finally
landed on new strip under
construction + met by Eric
Davison, engineer in charge of
construction, in a Bombardier,
with the K.C. priest + several
others. Very cold - perhaps 35° or a
strong west wind with misty rain -
good Barrow weather! Very good
lunch in construction crew mess +
out into field at 2:00 with

promise of being back in 4
hours. Went down to lake just
N of camp & runway & eventually
went around lake. Wind extremely
cold when working into it, but
bearable when at back - we
should have brought our parkas.
Lake shore quite rich - wet fen
vegetation, but tundra itself very
dry in spite of mist, consisting
of a dry dusty silt in clods.
Got *Splachnum vasculosum* & a
peculiar *Splachnaceae* moss -
(*Lophodon*, but not typical? - in
quantity, and enough *Cinclidium*
latifolium for exsiccati. Back to
camp at 6:00 with large plastic
bag & 2 smaller ones full, for
sorting later. Davison had
taken Dorothy & pilots on tour
of village, down on seashore

perhaps 500 feet below ridge with
trip, construction camp, weather
station, etc., & to meet some of
people in village. At dinner,
pilots decided that weather was
too bad to take a chance on
Bernard River tonight, with the
further chance of not being
able to land again at Sachs
Harbour, which would mean
going back to Inuvik & starting
all over again. So, Harrison gave
up his snug little room with
double decker to Dorothy & me,
Murphy & Alder got space in
bunkhouse, while Dick & I cap
stayed in plane. Weather alternately
mist right to ground & relatively
clear. Fred Carpenter had left
been on plane for present - spent very
pleasant evening talking to men.

August 1. Up soon after 6:00
& breakfast at 6:30. Weather dark
but higher ceiling than yesterday.
However, during breakfast, fog
came back in, although with
some visibility, so Murphy
decided to try Bernard River.
Took off at 8:00, with such
poor visibility, went up west
coast of Banks I. at 200-300 ft.
alt., instead of overland, to be
sure of reaching right river.
Weather alternately worse & better -
but essentially better than Sachs
Harbour. Before take off, gave
Davison 2 rolls of Kodachrome
as slight recompense for his
courtesy & hospitality - with so
much bad weather this summer
I am low on film. Reached
Bernard River mouth just before

9:00 & turned east to follow valley. After several passes over sand & gravel bar that serves as runway, Bob Murphy made a very gentle touchdown & landing - rough only after we were almost stopped and hit some small washes. Plane needed almost flying speed to taxi back to beach near tents. I was out about 9:30 in swales, low center polygons & lakes behind camp - to the north, with Dorothy. Area is surprisingly rich, especially after pessimistic reports by Mullen, who called it a "desert." The mosses show an area of high pH, and Jaap made pH analyses from a half dozen lakes - all 8.4 or 8.5. This explains total lack of Sphagnum. However, I don't understand not

Seeing *Hylorhynchium* and
Rhytidium - or *Fissidens* or
Mnium orthorhynchum today.
Got several things in quantity,
for exsiccati, esp. *Trichostomum*
cuspidatissimum, *Didymodon*
rufus (?), *Arctostomum acumin-*
atum, *Bryum Wrightii* & *B. sp.*,
common on lemming burrows
& runways. Also got much
Hylodon, *Splachnum vasculosum*
and a small unknown

Splachnum collected previously
at Driftwood & elsewhere -
perhaps only a reduced form of
S. vasculosum, but needs
study. In briefly for lunch, then
back to dry silt uplands, which
are not very productive. In soon
after 6:00, with 3 large plastic
bags full - after 2 in the

morning. Bill Maher's assistants
set up our tent for us, so we
got settled before dinner, which
had to be in 3 sittings of 3, since
plates, etc., had not been sent
out for us by HRL, in spite
of large amounts of food. I
assembled metal camp cot &
borrowed gas stove from
plane so we would have
hot water in morning for
coffee & to wash, and thereby
not bother the camp, which
arises late. Weather permitting,
we will spend a half day
tomorrow flying over the
country north of here, to see
musk oxen and to find a
better camp site for future seasons -
this one selected more or less by
chance - only 3 leanings all season!

August 2. Up at 6:45, fixed
coffee & out soon after 7:00,
before rest of camp was
stirring. Collecting good,
although weather much
colder - 30° during night,
Bill Maher reported. In for
lunch just after 12:00 because
although weather wasn't too
good, it showed no signs of
improving. ...
... get our reconnaissance
flight over. Off at 1:30, but
to get an extra bit of runway
for take off on gravel beach,
pilot got plane too close
to river & wheels went
through gravel, up to hubs,
beyond power of engine.
So we dug wheels out, but
left wheel in deeper & tended

to take plane closer to river.
Finally got some more cloth wire
a wire that - after 5-6 tries,
with perhaps 10 feet of advance,
murphy, finally put full force
on right engine, pulled plane
around and struggled it onto
better ground. Finally off again
at 2:45, without trouble. Went
straight north to Cape on north
end of Banks Island, seeing
several musk oxen & caribou on
way. Flew along coast to a ^{Castell} bay,
then inland some distance
& back to coast on ^{Murray} ~~Castell~~ Bay,
^{Cape Falcon Bluff}
thence east nearly to eastern
extremity. We turned south &
flew to late district, somewhat
southeast of our camp area,
with Prince of Wales Sound and
Victoria Island in view on left.

North coast consists of mud & rock cliffs, something like the Bad Lands - clays and gravels not too well consolidated, with almost no vegetation. Inland north of coast is also of relatively soft rocks, clays & gravels, with few outcrops or real rock visible. Whole effect is of very dry area, with splendid barren of plants and with very conspicuous patterned ground - polygons and soil streams on hillsides. Back at 6:45 after just 3 hours in air - walked out to bluffs along river a mile or so from camp & got *Stegonia*. A good day, with much *Urtica* & *Fernaria* plus some other fill-ins. Snow in the air at 10:30.

August 3. Up early & in field soon
after 7:00. Got enough more
Meesea uliginosa for distribution &
a few other things. In before 8:30,
packed, folded beds, tied up
sleeping bags, air mattresses, etc.,
ate breakfast & got gear to plane
before 10:00, our agreed time
of departure. However, Maher
had to write a letter & pack some
specimens he wanted to send to
ARL, so we didn't get loaded
until 10:35 & in the air at 11:45.

Dorothy & I spent the time
picking up small black, red & green
pebbles! Flew overland directly to
Sachs Harbour, arriving at 11:45.
Stopped only long enough to open
door of plane & take mail from
Eric Davison & back in the air
again at 11:50. Weather at Sachs

Harbour good, although not sunny, but cold wind and intermittent mist gone - wish we could have had this weather for collecting. Arrived Inuvik at 2:15, but taxi just departing with personnel from another DC-3 that arrived before us, so we had to wait nearly a half hour for ride to town. Lunch at Hotel Mackenzie then Murphy to liquor store on business for ARL and the rest of us to Hudson Bay Store to look at soapstone carvings - everyone bought something. Then back to plane after having to locate customs man in hotel bar & taking him to his house where papers were to be signed by pilot. After plane was garaged, we

Take off at 5:50 - 3.50

Barrow time for trip of
approximately 4 hours. Weather
heavy, with no visibility of
ground at flying altitude, and
cabin cold because of leaks in
door, etc. - Every one got to
Barrow almost asleep from lack
of sleep, cumulatively, but cold
cabin waked them up. My eyes
lired from 3. hour flight
yesterday, looking out sideways
at tundra going by. Arrived
Barrow at 8:00, on schedule,
but nobody out to meet us -
some how on Saturday night
the news just didn't get
through. Finally, Norma Alderfer
came out in jeep - she got news on
phone. Spent an hour or so getting
bags of mosses in order for working.

August 4 (Sunday). Up at 7:30
went to Lab to sort noses.

By noon, was through
Klavik and Inuvik collections,
the most critical because
collected first and kept warmest,
so most apt to sprout or mold.
However, everything ok - the
Bank's Island material kept
practically in deep freeze,
although not by intention, and
so in good shape. Got a good
start on sorting the Sachs
Harbour specimens, but too
tired to go back after dinner
and continue. Worked with
door closed and saw almost
nobody. Salomene stopped
by & was pleased with carved
soapstone figures we selected
for him in Inuvik.

August 5. Up early - a very cold morning, below freezing. Continued sorting & recording & finished Sachs Harbour stuff by noon. Dorothy came in both morning & afternoon for a while, putting specimens in sheets. All material through Sachs Harbour put in press & over drier by 10:00 pm, and a good start made on sorting & cataloging the many large plastic bags of stuff from Bernard River. Found Uotria - a few plants - among Tetraodon, although looked for in vain in field! Collection better than I realized in field, looking at occasional puzzlers with binoc. Max Brewer in, full of plans for future. Cash'd check for \$200. - to be sure of getting home.

August 6. Finished sorting
and cataloging all specimens
by noon, but most from Bernard
River still not in papers by
noon. After lunch, looked at
specimens on dryer overnight
- found them disappointingly
wet. Put many out to air-
dry & to make room for new
material in press. By 6:00
pm. had everything either in
press on the heater or else
out exposed to dry air of
room - a great relief, as
Dorothy & I worked most of
day putting them in papers.
Finally found *trivident*, not
seen in field - other things will
undoubtedly turn up. Dinner
at Brewers. A real storm -
walking home from lab was like
facing firehose.

August 7. Up early - in spite
of turning presses late last
night, everything still damp.
By noon had everything
exposed to air, laid flat on
the heater, or actually
dried. Max Brewer wanted to
send me for a couple of hours
to a dune area near the
Colville River Delta; but
with wet specimens already
on hand and with departure
scheduled for tomorrow,
I had to refuse - one of the
first times! Went to lab
after dinner & got last wet
material laid out on heater for
the night. Cliff Alderfer in - he
was laid out with a terrible cold
since return from Banks Island.
Letter to Susan D. Lane on Graham's death.

August 8. Up at 6:00 & wrapped & packed specimens. Borrowed a jeep, went home & picked up all loose clothing to turn in plus 4 cartons of our own stuff for shipping. Taped up cartons - 12" all - & wrote memo to Max Brewer expressing hope that 3 cartons of Banks Island specimens can be sent by air - I will try to work through this material as soon as possible. Plane 1 hour late, so had time, finally, to do June & July progress reports. Could not find carton big enough for work sack so finally had to lug it along, too. A quick lunch, interrupted by the arrival of the Kalffs - Mrs. K. & the new baby had just come in on the plane - and Mary Lou & Billy Brewer, as well as Ted Humphrey,

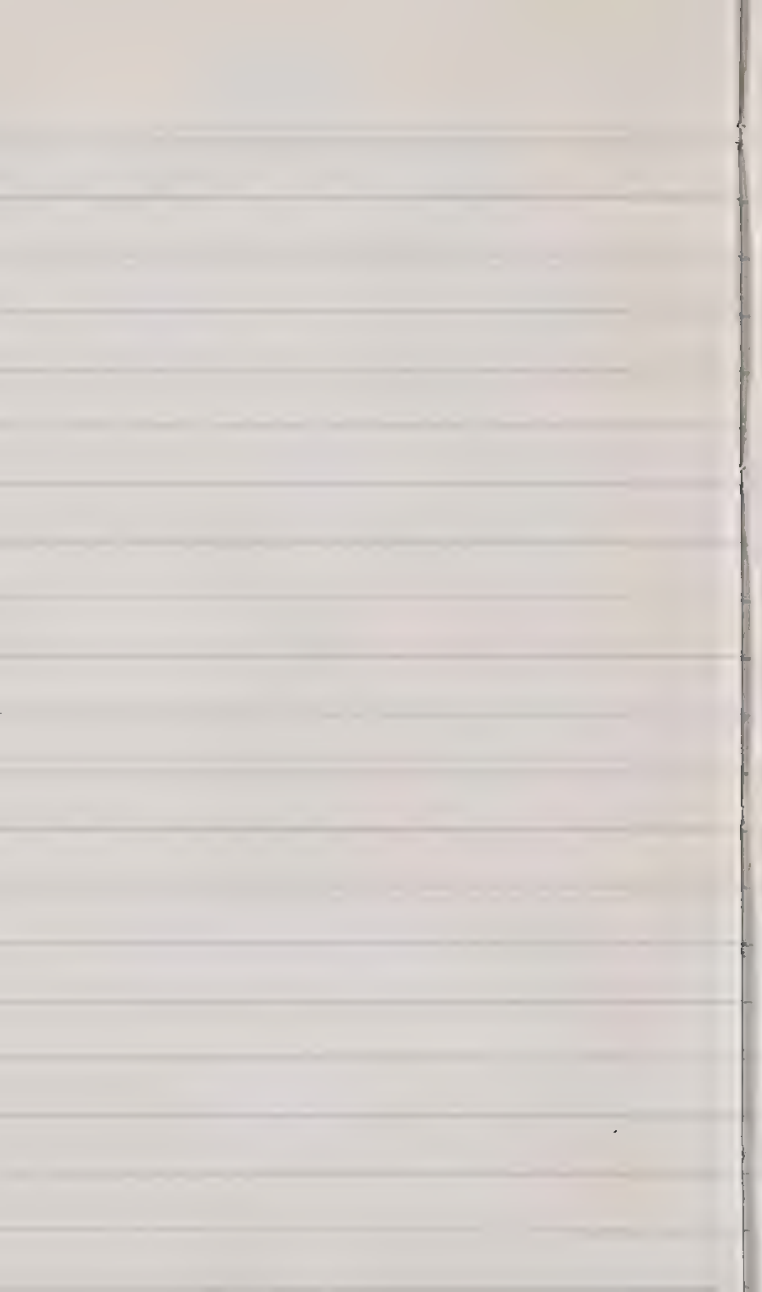
to pick up us and our baggage.
Since plane was late, it made a
quick turnaround & we were
already aboard with doors closed
when Max & John arrived. Off
at 1:00 & in Laramie just before
2:00. Stopped long enough to see
Bob Main - he is now flying in
from for him. After this was
quitting at Laramie and went
to Tivoli, the new big air company.
Off at 2:15 & in Fairbanks at
2:45. Brooks have arrived in,
as usual. Went to Traveller's
to kill time - drinks & dinner -
then back to airport at 7:00 for
plane to Anchorage. Off at 8:00
and in Anchorage, on the
ground, by 9:00, but very
slow letting off passengers & motel
unloading baggage. Thunderbird

August 9. Up at 8:00 &
went to Motel office to find out
if there was a place to eat
within walking distance -
just in time to receive a
call from Northwest Airlines
to call Allan Beattie. He
had called Grace Dietz and
she had gotten Northwest in
New York to locate us.
Fortunately, I had asked
Northwest in Anchorage to
make our reservations, so
they knew where to find us.
God Dorothy & we called
Allan, to discover that
Lois had pneumonia and was
much worse than we could
have known from her letter.
We went at once to the
airport and were able to

get reservations for Dowding -
to leave very soon for
Seattle by Pacific Northern
Airlines, thence to San
Francisco by Western. Also
bought S. F. Idlewild ticket,
without specific date. Then
called Alan back to tell
him of flight numbers and
to have Bill meet her.
Although we loaded at almost
the same time, my plane
waited almost an hour - some
customs problem about arrival
from Tokyo. Trip uneventful -
few passengers & I had 3 seats
to myself. Landed at Idlewild
just before 12:00 midnight - no
^{from Cross County} taxi, so had to take a regular
one & pay regular fare double -
Home about 1:30 am., Aug. 10.







BANKS ISLAND
Sachs Harbor,
Banks Island

$71^{\circ}59'N, 125^{\circ}12'W.$
WAC #61 (Amundsen Gulf)

Bernard River Camp
 $73^{\circ}25'N, 122^{\circ}44'W.$
WAC # 35 (McClure Strait)
(letter from Brewer 6/13/63)

Manning, T. H., E. O. Höhn,
A. H. Macpherson. The
birds of Banks Island -
Nat Mus. Canada Bull 143.
Biol. Ser. No. 148. pp. 1-144. 1956

Meade River P.O.

Coal Mine = Atkasuk
on World Aeronautical
Chart 63 (Brooks Range)
 $70^{\circ}29'N$. Lat., $157^{\circ}26'W$. Long
[Atkasuk is 3 miles north]

Noluck Lake - right on
line between World
Aeronautical Charts
63 (Brooks Range) and
64 (Utukok River)
 $68^{\circ}47'N$. Lat., $160^{\circ}00'W$. Long.

Point Barrow
 $71^{\circ}21'N$., $156^{\circ}19'W$. Long.

Inuvik $68^{\circ}21'N$, $133^{\circ}40'W$.
See WAC 62 (Mackenzie Bay)
Aklavik $68^{\circ}13'N$, $135^{\circ}01'W$.
See WAC 62 (Mackenzie Bay)
Cape Thompson $68^{\circ}07'N$, $165^{\circ}55'W$.
See WAC 64 (Utukok River)

6/27/63

Expenditures in Fairbanks

pants \$ 17.00

boots 11.05

stamps 8.00

plastic bags 5.00

wax pencils
etc. 6.30

5 rolls film 4.50

drugs 7.50

groceries

etc.

gloves 5.11

underwear 4.63

film \$54.00 6/20/63

maps

